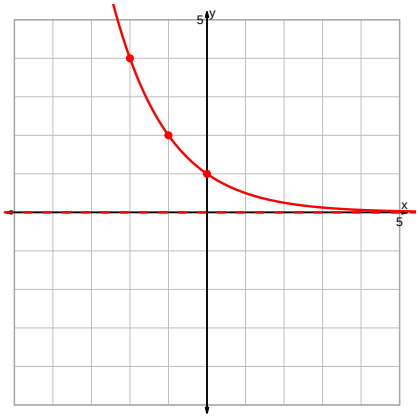
NAME: DATE:

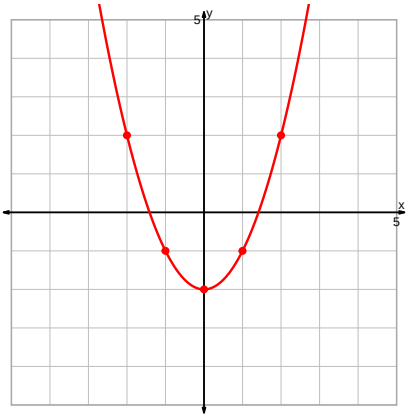
Unit-2 Reduced Mastery Assessment (version 304)

Question 1 (20 points)

Graph the equations accurately. For each integer-integer point on the parent, indicate the corresponding point precisely. Also, with dashed lines, indicate any asymptotes.

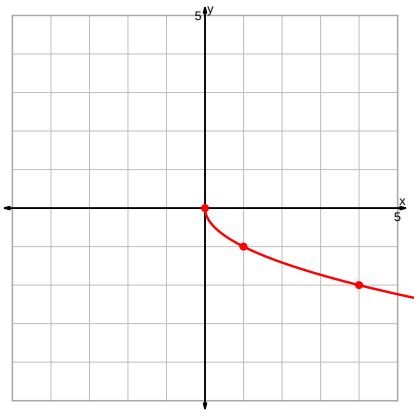
$y = 2^{-x}$

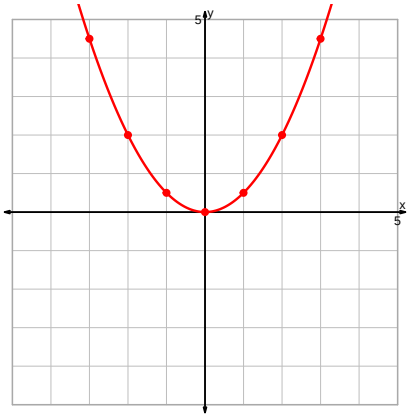




$y = x^2 - 2$

$y = -\sqrt{x}$

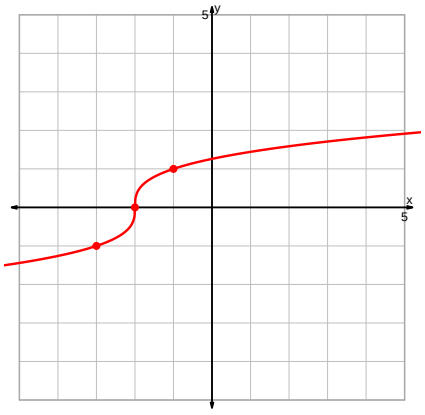


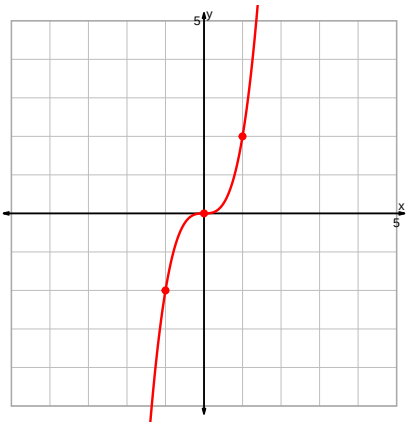


$y = \frac{x^2}{2}$

Question 2 continued. . .

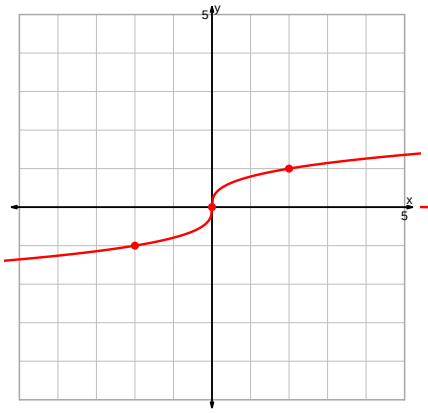
$y = \sqrt[3]{x+2}$

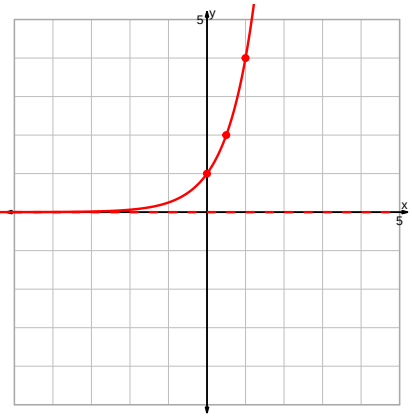




$y = 2 \cdot x^3$

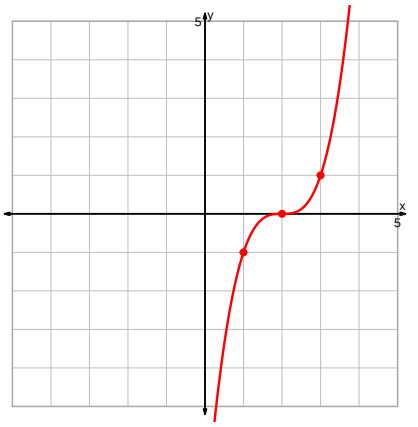
$y = \sqrt[3]{\frac{x}{2}}$

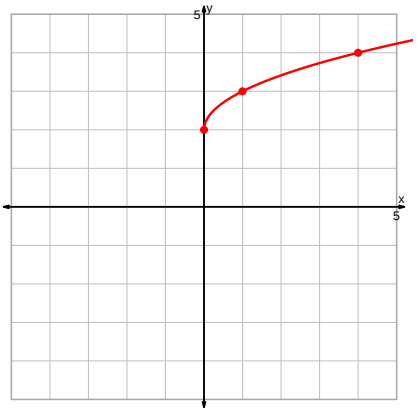




$y = 2^{2x}$

$y = (x-2)^3$

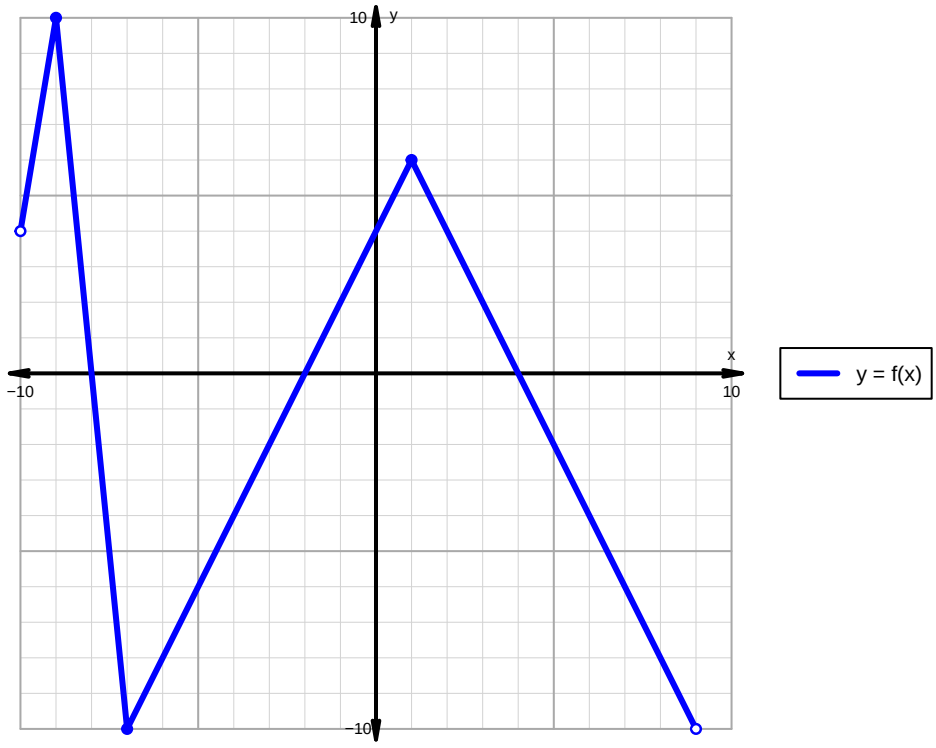




$y = \sqrt{x} + 2$

Question 2 (20 points)

A function is graphed below.



Indicate the following intervals using interval notation.

Feature	Where
Positive	$(-10,-8)\cup(-2,4)$
Negative	$(-8,-2)\cup(4,9)$
Increasing	$(-10,-9)\cup(-7,1)$
Decreasing	$(-9,-7)\cup(1,9)$
Domain	$(-10,9)$
Range	$(-10,10)$